Table S1. Radiocarbon dates of lithic assemblages containing atypical EUP materials with only charcoal samples (to compare the upper limit and distributions of the calibrated range, dates before 30,000 uncal BP with error range ≤ 1000 are selected).

| **N** | **E** | **Site** | **Region** | **Sediment / layer** | **14C age (BP)** | **Lab no.** | **Source** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 38.221 | 127.272 | Sangsa-ri | Cheorwon | lower, CL3, brown sandy | 31350 ± 220 | SNU11-1007 | GRICP 2013 |
|  |  |  |  | middle, CL2, dark brown | 37040 ± 300 | OWd120010 | GRICP 2013 |
| 38.081 | 127.209 | Neulgeori | Pocheon | middle, CL2, dark brown | 33060 ± 290 | SNU13-378 | GCHRC 2016 |
|  |  |  |  |  | 31590 ± 290 | SNU13-377 | GCHRC 2016 |
| 38.080 | 127.015 | Samgeo-ri | Yeoncheon | lower, CL1, brown sandy | 40370 ± 340 | CAL-? | BICH 2019 |
|  |  |  |  |  | 36300 ± 210 | CAL-? | BICH 2019 |
| 37.922 | 126.836 | Geumpa-ri | Paju | upper | 31400 ± 400 | SNU04-323 | ICPHU 2006 |
|  |  |  |  |  | 30800 ± 400 | SNU04-325 | ICPHU 2006 |
| 37.804 | 128.885 | Anhyeon-dong | Gangneung | lowest | 34100 ± 160 | PLD-17382 | YICP 2011 |
|  |  |  |  |  | 42140 ± 300 | PLD-17382 | YICP 2011 |
| 37.722 | 126.718 | Dongpae-ri | Paju | CH4 | 39500 ± 400 | SNU08-475 | GICP 2010 |
|  |  |  |  |  | 40300 ± 400 | SNU08-474 | GICP 2010 |
| 37.684 | 127.870 | Yeonbong | Hongcheon | CH2 | 41600 ± 600 | SNU05-253 | GRICP 2007 |
| 37.596 | 129.077 | Gigok | Donghae | CH3 | 37260 ± 820 | GX-30133 | GRICP 2005 |
|  |  |  |  | CH2 | 43170 ± 610 | GX-30132 | GRICP 2005 |
|  |  |  |  |  | 36070 ± 380 | GX-30136 | GRICP 2005 |
|  |  |  |  | CH1 | 35230 ± 380 | GX-30134 | GRICP 2005 |
| 37.594 | 129.079 | Mangsang-dong | Donghae | CH1 | 34000 ± 400 | SNU06-998 | GRICP 2009 |
| 37.580 | 127.210 | Deokso | Namyangju | lowest | 36800 ± 200 | SNU06-002 | USWM 2008 |
|  |  |  |  |  | 37300 ± 200 | SNU06-001 | USWM 2008 |
| 37.520 | 129.120 | Wolso | Donghae | CH2 | 43450 ± 790 | OWd090707 | YICP 2010 |
| 37.286 | 127.326 | Yujeong-ri | Gwangju | lowest | 41420 ± 540 | RPC-190140 | JIA 2022 |
| 37.020 | 128.370 | Gunanggul | Danyang | 3rd layer | 37610 ± 250 | IAAA-122978 | IKP 2013, 2015 |
|  |  |  |  |  | 40290 ± 320 | IAAA-122979 | IKP 2013, 2015 |
|  |  |  |  |  | 36250 ± 180 | IAAA-130214 | IKP 2013, 2015 |
|  |  |  |  |  | 37050 ± 180 | IAAA-130215 | IKP 2013, 2015 |
|  |  |  |  |  | 35050 ± 170 | IAAA-130216 | IKP 2013, 2015 |
| 35.850 | 127.100 | Palbok-dong | Jeonju | CH3 | 44857 ± 416 | ESCh170561 | JRICH 2019 |
|  |  |  |  |  | 42512 ± 403 | ESCh170562 | JRICH 2019 |
| 35.300 | 129.070 | Sasong-ri | Yangsan | CH1 | 32100 ± 220 | CAL-? | GCHRC 2018 |
|  |  |  |  |  | 34460 ± 280 | CAL-? | GCHRC 2018 |

Table S2. Measurements of blades and tanged points available from the excavation reports of the EUP sites.

| **Assemblage** | **Type** | **Length (mm)** | **Width (mm)** | **Thickness (mm)** | **Weight (g)** | **Lithic raw material** |
| --- | --- | --- | --- | --- | --- | --- |
| Hajin-ri 3 | Blade | 85.00 | 48.00 | 18.00 | 84.00 | (Siliceous) Shale |
|  |  | 72.00 | 19.00 | 17.00 | 16.00 | (Siliceous) Shale |
|  |  | 87.00 | 28.00 | 15.00 | 34.00 | (Siliceous) Shale |
|  |  | 45.00 | 17.00 | 5.00 | 3.00 | (Siliceous) Shale |
|  |  | 67.00 | 23.00 | 16.00 | 17.00 | (Siliceous) Shale |
|  |  | 52.00 | 20.00 | 4.00 | 6.00 | (Siliceous) Shale |
|  |  | 36.00 | 12.00 | 5.00 | 2.00 | (Siliceous) Shale |
|  |  | 67.00 | 14.00 | 7.00 | 6.00 | (Siliceous) Shale |
|  |  | 73.00 | 16.00 | 13.00 | 15.00 | (Siliceous) Shale |
|  |  | 70.00 | 19.00 | 8.00 | 11.00 | (Siliceous) Shale |
|  |  | 68.00 | 27.00 | 7.00 | 18.00 | (Siliceous) Shale |
|  |  | 78.50 | 22.80 | 18.00 | 22.00 | (Siliceous) Shale |
|  |  | 80.90 | 36.40 | 10.40 | 32.00 | (Siliceous) Shale |
|  |  | 93.30 | 48.20 | 14.80 | 65.00 | (Siliceous) Shale |
|  |  | 51.30 | 18.90 | 13.10 | 11.00 | (Siliceous) Shale |
|  |  | 96.30 | 40.10 | 14.50 | 41.00 | (Siliceous) Shale |
|  |  | 133.10 | 34.10 | 13.10 | 46.00 | (Siliceous) Shale |
|  |  | 84.30 | 22.20 | 8.30 | 21.00 | (Siliceous) Shale |
|  |  | 119.00 | 52.50 | 19.30 | 89.00 | (Siliceous) Shale |
|  |  | 34.80 | 7.00 | 4.10 | 1.00 | (Siliceous) Shale |
|  |  | 94.30 | 28.90 | 12.50 | 27.00 | (Siliceous) Shale |
|  |  | 120.00 | 38.10 | 17.50 | 76.00 | (Siliceous) Shale |
|  |  | 93.80 | 31.00 | 13.30 | 29.00 | (Siliceous) Shale |
|  |  | 43.20 | 11.20 | 7.00 | 5.00 | (Siliceous) Shale |
|  |  | 33.00 | 11.80 | 4.10 | 2.00 | (Siliceous) Shale |
|  |  | 41.80 | 11.70 | 6.80 | 3.00 | (Siliceous) Shale |
|  |  | 151.10 | 37.50 | 17.70 | 105.00 | (Siliceous) Shale |
| Hajin-ri 4 |  | 110.20 | 42.50 | 17.10 | 82.00 | (Siliceous) Shale |
|  |  | 37.90 | 6.50 | 4.20 | 1.00 | (Siliceous) Shale |
|  |  | 21.50 | 9.20 | 2.90 | 0.70 | (Siliceous) Shale |
|  |  | 123.10 | 39.00 | 20.60 | 93.00 | (Siliceous) Shale |
|  |  | 115.80 | 36.20 | 12.80 | 67.00 | (Siliceous) Shale |
|  |  | 149.30 | 51.40 | 25.00 | 198.00 | (Siliceous) Shale |
|  |  | 119.40 | 28.20 | 20.40 | 59.00 | (Siliceous) Shale |
|  |  | 92.30 | 15.40 | 9.00 | 16.00 | (Siliceous) Shale |
|  |  | 204.50 | 56.30 | 30.00 | 316.00 | (Siliceous) Shale |
|  |  | 112.70 | 19.70 | 8.60 | 26.00 | (Siliceous) Shale |
|  |  | 134.30 | 41.30 | 30.70 | 159.00 | (Siliceous) Shale |
|  |  | 147.50 | 36.10 | 23.60 | 121.00 | (Siliceous) Shale |
|  |  | 102.70 | 27.70 | 30.00 | 90.00 | (Siliceous) Shale |
|  |  | 63.20 | 22.80 | 8.40 | 11.40 | (Siliceous) Shale |
|  |  | 142.20 | 44.20 | 12.00 | 78.00 | (Siliceous) Shale |
|  |  | 102.10 | 24.40 | 12.80 | 45.00 | (Siliceous) Shale |
|  |  | 124.00 | 39.00 | 19.30 | 113.00 | (Siliceous) Shale |
|  |  | 88.70 | 27.70 | 6.20 | 27.00 | (Siliceous) Shale |
|  |  | 64.60 | 18.70 | 9.70 | 12.00 | (Siliceous) Shale |
|  |  | 69.60 | 33.90 | 13.30 | 36.00 | (Siliceous) Shale |
|  |  | 98.30 | 27.40 | 13.50 | 33.00 | (Siliceous) Shale |
|  |  | 72.30 | 37.70 | 6.00 | 14.00 | (Siliceous) Shale |
|  |  | 123.30 | 46.00 | 13.80 | 67.00 | (Siliceous) Shale |
|  |  | 97.70 | 32.40 | 9.50 | 33.00 | (Siliceous) Shale |
|  |  | 143.70 | 29.50 | 21.50 | 91.00 | (Siliceous) Shale |
|  |  | 172.00 | 33.80 | 18.50 | 132.00 | (Siliceous) Shale |
|  |  | 79.70 | 42.80 | 16.70 | 46.00 | (Siliceous) Shale |
|  |  | 136.40 | 22.70 | 12.10 | 35.00 | (Siliceous) Shale |
|  |  | 95.60 | 21.90 | 19.50 | 32.00 | (Siliceous) Shale |
|  |  | 110.00 | 25.40 | 9.50 | 33.00 | (Siliceous) Shale |
|  |  | 141.80 | 35.60 | 13.70 | 63.00 | (Siliceous) Shale |
|  |  | 71.60 | 16.50 | 11.90 | 15.00 | (Siliceous) Shale |
|  |  | 72.20 | 32.40 | 13.20 | 21.00 | (Siliceous) Shale |
|  |  | 82.10 | 35.60 | 18.40 | 45.00 | (Siliceous) Shale |
|  |  | 77.30 | 14.80 | 12.10 | 13.00 | (Siliceous) Shale |
|  |  | 122.40 | 38.30 | 16.70 | 70.00 | (Siliceous) Shale |
| Yongsujaeul |  | 126.00 | 30.00 | 22.00 | 77.00 | (Silicified) Tuff |
|  |  | 88.00 | 45.00 | 27.00 | 64.00 | (Silicified) Tuff |
|  |  | 86.00 | 38.00 | 18.00 | 47.00 | (Silicified) Tuff |
|  |  | 119.00 | 54.00 | 20.00 | 87.00 | (Silicified) Tuff |
|  |  | 96.00 | 50.00 | 19.00 | 90.00 | (Silicified) Tuff |
|  |  | 91.00 | 44.00 | 16.00 | 50.00 | (Silicified) Tuff |
|  |  | 60.00 | 41.00 | 23.00 | 31.00 | (Silicified) Tuff |
|  |  | 75.00 | 32.00 | 14.00 | 21.00 | (Silicified) Tuff |
|  |  | 47.00 | 20.00 | 11.00 | 6.00 | (Silicified) Tuff |
|  |  | 63.00 | 15.00 | 10.00 | 6.00 | (Silicified) Tuff |
|  |  | 58.00 | 13.00 | 11.00 | 5.00 | (Silicified) Tuff |
|  |  | 126.00 | 70.00 | 19.00 | 147.00 | (Silicified) Tuff |
|  |  | 89.00 | 45.00 | 11.00 | 48.00 | (Silicified) Tuff |
|  |  | 112.00 | 47.00 | 16.00 | 77.00 | (Silicified) Tuff |
|  |  | 116.00 | 45.00 | 15.00 | 84.00 | (Silicified) Tuff |
|  |  | 104.00 | 52.00 | 18.00 | 81.00 | (Silicified) Tuff |
|  |  | 86.00 | 35.00 | 14.00 | 22.00 | (Silicified) Tuff |
|  |  | 83.00 | 36.00 | 15.00 | 24.00 | (Silicified) Tuff |
|  |  | 72.00 | 35.00 | 13.00 | 16.00 | (Silicified) Tuff |
|  |  | 99.00 | 49.00 | 19.00 | 39.00 | (Silicified) Tuff |
|  |  | 75.00 | 39.00 | 14.00 | 36.00 | (Silicified) Tuff |
|  |  | 62.00 | 31.00 | 10.00 | 10.00 | (Silicified) Tuff |
|  |  | 52.00 | 30.00 | 9.00 | 8.00 | (Silicified) Tuff |
|  |  | 52.00 | 27.00 | 8.00 | 6.00 | (Silicified) Tuff |
|  |  | 71.00 | 32.00 | 13.00 | 25.00 | (Silicified) Tuff |
|  |  | 59.00 | 33.00 | 10.00 | 15.00 | (Silicified) Tuff |
|  |  | 60.00 | 34.00 | 11.00 | 21.00 | (Silicified) Tuff |
|  |  | 55.00 | 30.00 | 9.00 | 9.00 | (Silicified) Tuff |
|  |  | 69.00 | 37.00 | 18.00 | 36.00 | (Silicified) Tuff |
|  |  | 64.00 | 19.00 | 8.00 | 7.00 | (Silicified) Tuff |
|  |  | 39.00 | 36.00 | 7.00 | 7.00 | (Silicified) Tuff |
|  |  | 59.00 | 35.00 | 14.00 | 21.00 | (Silicified) Tuff |
|  |  | 24.00 | 18.00 | 5.00 | 2.00 | (Silicified) Tuff |
|  |  | 32.00 | 18.00 | 4.00 | 2.00 | (Silicified) Tuff |
|  |  | 30.00 | 19.00 | 7.00 | 3.00 | (Silicified) Tuff |
|  |  | 31.00 | 16.00 | 5.00 | 1.00 | (Silicified) Tuff |
|  |  | 24.00 | 16.00 | 5.00 | 0.90 | (Silicified) Tuff |
|  |  | 24.00 | 13.00 | 3.00 | 0.70 | (Silicified) Tuff |
| Songam-ri |  | 56.90 | 17.40 | 7.40 | 8.00 | (Siliceous) Shale |
|  |  | 62.30 | 32.00 | 7.70 | 16.00 | (Siliceous) Shale |
| Yongsujaeul | Tanged point | 85.00 | 25.00 | 10.00 | 18.00 | (Silicified) Tuff |
|  |  | 45.00 | 34.00 | 7.00 | 7.00 | (Silicified) Tuff |
|  |  | 32.00 | 17.00 | 6.00 | 2.00 | (Silicified) Tuff |
|  |  | 33.00 | 19.00 | 14.00 | 7.00 | (Silicified) Tuff |
| Songam-ri |  | 38.10 | 16.20 | 7.70 | 5.00 | (Siliceous) Shale |
|  |  | 54.20 | 26.10 | 8.30 | 8.00 | Rhyolite |
|  |  | 40.30 | 18.00 | 4.60 | 3.00 | (Siliceous) Shale |
| Hajin-ri 3 |  | 67.00 | 20.00 | 7.00 | 9.00 | (Siliceous) Shale |
|  |  | 50.00 | 20.00 | 8.00 | 8.00 | (Siliceous) Shale |
|  |  | 58.00 | 28.00 | 10.00 | 13.00 | (Siliceous) Shale |
|  |  | 68.70 | 23.60 | 9.00 | 15.00 | (Siliceous) Shale |
|  |  | 78.30 | 26.80 | 9.50 | 17.00 | (Siliceous) Shale |
|  |  | 70.10 | 26.30 | 7.70 | 15.00 | (Siliceous) Shale |
|  |  | 61.90 | 19.50 | 7.30 | 6.00 | (Siliceous) Shale |
|  |  | 63.40 | 21.20 | 5.30 | 7.00 | (Siliceous) Shale |
|  |  | 80.20 | 21.10 | 8.00 | 12.00 | (Silicified) Tuff |
|  |  | 49.50 | 19.40 | 5.70 | 4.00 | (Siliceous) Shale |
|  |  | 50.90 | 18.70 | 8.40 | 8.00 | (Siliceous) Shale |
| Hajin-ri 4 |  | 48.60 | 24.20 | 7.20 | 7.00 | (Siliceous) Shale |
|  |  | 63.30 | 22.00 | 7.10 | 11.00 | (Siliceous) Shale |
|  |  | 55.70 | 25.00 | 6.20 | 7.00 | (Siliceous) Shale |
|  |  | 36.70 | 21.10 | 5.20 | 4.00 | (Siliceous) Shale |
|  |  | 62.80 | 22.50 | 6.80 | 9.00 | (Siliceous) Shale |
|  |  | 44.80 | 17.50 | 4.50 | 4.00 | (Siliceous) Shale |
|  |  | 57.60 | 21.10 | 6.00 | 8.00 | (Siliceous) Shale |
|  |  | 69.90 | 20.70 | 6.10 | 11.00 | (Siliceous) Shale |
|  |  | 81.20 | 24.10 | 8.70 | 18.00 | (Siliceous) Shale |
|  |  | 48.50 | 20.50 | 4.90 | 4.00 | (Siliceous) Shale |
|  |  | 76.20 | 27.30 | 6.10 | 12.00 | (Siliceous) Shale |
|  |  | 51.50 | 20.90 | 6.60 | 7.00 | (Siliceous) Shale |
|  |  | 69.90 | 31.30 | 7.50 | 18.00 | (Siliceous) Shale |
|  |  | 68.30 | 27.60 | 9.30 | 14.00 | (Siliceous) Shale |
|  |  | 84.30 | 25.20 | 9.00 | 23.00 | (Siliceous) Shale |
|  |  | 51.10 | 19.80 | 6.10 | 5.00 | (Siliceous) Shale |
|  |  | 75.20 | 21.20 | 6.70 | 9.00 | (Siliceous) Shale |
|  |  | 73.20 | 24.20 | 9.00 | 15.00 | (Siliceous) Shale |
|  |  | 59.70 | 24.50 | 7.30 | 11.00 | (Siliceous) Shale |
|  |  | 65.90 | 24.90 | 7.50 | 12.00 | (Siliceous) Shale |
|  |  | 88.00 | 28.50 | 10.00 | 22.00 | (Siliceous) Shale |
|  |  | 79.70 | 23.90 | 10.60 | 17.00 | (Siliceous) Shale |
|  |  | 62.70 | 22.40 | 9.40 | 11.00 | (Siliceous) Shale |
|  |  | 74.80 | 27.90 | 5.70 | 15.00 | (Siliceous) Shale |
|  |  | 73.30 | 24.40 | 7.40 | 11.00 | (Siliceous) Shale |
|  |  | 88.00 | 27.80 | 7.80 | 15.00 | (Siliceous) Shale |
|  |  | 71.90 | 27.80 | 11.20 | 17.00 | (Siliceous) Shale |
|  |  | 78.00 | 23.30 | 6.10 | 12.00 | (Siliceous) Shale |
|  |  | 72.80 | 20.60 | 7.00 | 10.00 | (Siliceous) Shale |
|  |  | 56.10 | 20.80 | 5.30 | 5.00 | (Siliceous) Shale |
|  |  | 80.70 | 24.20 | 6.40 | 15.00 | (Siliceous) Shale |
|  |  | 69.00 | 14.10 | 8.90 | 8.00 | (Siliceous) Shale |
|  |  | 93.80 | 25.70 | 6.20 | 19.00 | (Siliceous) Shale |
|  |  | 62.60 | 17.50 | 7.00 | 8.00 | (Siliceous) Shale |
|  |  | 76.70 | 28.50 | 11.50 | 17.00 | (Siliceous) Shale |
|  |  | 74.50 | 29.50 | 8.50 | 19.00 | (Siliceous) Shale |
|  |  | 76.30 | 24.30 | 7.40 | 16.00 | (Siliceous) Shale |
|  |  | 55.10 | 24.90 | 6.90 | 8.00 | (Siliceous) Shale |
|  |  | 77.30 | 24.40 | 4.50 | 9.00 | (Siliceous) Shale |
|  |  | 51.10 | 17.80 | 6.60 | 6.00 | (Siliceous) Shale |
|  |  | 54.20 | 24.90 | 9.70 | 12.00 | (Siliceous) Shale |
|  |  | 73.70 | 29.10 | 8.40 | 14.00 | (Siliceous) Shale |
|  |  | 68.10 | 22.00 | 8.60 | 11.00 | (Siliceous) Shale |
|  |  | 56.00 | 20.50 | 6.70 | 9.00 | (Siliceous) Shale |
|  |  | 55.00 | 23.70 | 8.10 | 14.00 | (Siliceous) Shale |
|  |  | 60.40 | 22.20 | 5.20 | 8.00 | (Siliceous) Shale |
|  |  | 78.90 | 22.60 | 8.60 | 13.00 | (Siliceous) Shale |
|  |  | 74.10 | 26.70 | 9.50 | 15.00 | (Siliceous) Shale |
|  |  | 75.30 | 22.60 | 6.80 | 11.00 | (Siliceous) Shale |
|  |  | 73.30 | 23.00 | 6.20 | 8.00 | (Siliceous) Shale |
|  |  | 54.70 | 20.60 | 5.30 | 5.00 | (Siliceous) Shale |
|  |  | 69.90 | 23.50 | 8.50 | 12.00 | (Siliceous) Shale |
|  |  | 53.70 | 20.60 | 5.00 | 7.00 | (Siliceous) Shale |
|  |  | 80.40 | 27.20 | 8.20 | 16.00 | (Siliceous) Shale |
|  |  | 77.40 | 22.10 | 9.50 | 13.00 | (Siliceous) Shale |
|  |  | 53.40 | 20.40 | 8.10 | 6.00 | (Siliceous) Shale |
|  |  | 68.00 | 23.40 | 8.50 | 15.00 | (Siliceous) Shale |
|  |  | 57.30 | 19.60 | 7.50 | 8.00 | (Siliceous) Shale |
|  |  | 71.40 | 21.30 | 5.20 | 7.00 | (Siliceous) Shale |
|  |  | 65.40 | 26.00 | 6.50 | 13.00 | (Siliceous) Shale |
|  |  | 58.40 | 38.80 | 21.10 | 57.00 | (Siliceous) Shale |
|  |  | 70.20 | 22.50 | 5.60 | 11.00 | (Siliceous) Shale |
|  |  | 56.20 | 18.90 | 6.60 | 6.00 | (Siliceous) Shale |
|  |  | 75.10 | 32.20 | 8.70 | 21.00 | (Siliceous) Shale |

Table S3. Radiocarbon dates from four IUP-EUP assemblages discussed in the text (to compare the upper limit and distributions of the calibrated range, dates before 30,000 uncal BP are selected).

| **#** | **Site** | **Approximate location** | **14C age BP** | **Lab no.** | **Sample** | **References** |
| --- | --- | --- | --- | --- | --- | --- |
| 1 | Kara-Bom (UP1) | 50.722892 N / 85.574655 E | 30,990 ± 460 | GX-17593 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 2 |  |  | 33,780 ± 570 | GX-17594 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 3 |  |  | 34,180 ± 640 | GX-17595 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 4 | Kara-Bom (UP2) |  | 43,300 ± 1600 | GX-17596 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 5 |  |  | 43,200 ± 1500 | GX-17597 | charcoal | Derevianko et al. 2000; Goebel et al. 1993 |
| 6 | Kara-Bom (UP1) |  | 31,800 ± 400 | OxA-36908 | bone | Rybin et al. 2023 |
| 7 |  |  | 32,300 ± 450 | OxA-36868 | bone | Rybin et al. 2023 |
| 8 | Kara-Bom (UP2) |  | 43,700 ± 1800 | OxA-36869 | bone | Rybin et al. 2023 |
| 9 |  |  | 44,400 ± 2000 | OxA-36909 | bone | Rybin et al. 2023 |
| 10 |  |  | 41,200 ± 1300 | OxA-34923 | bone | Rybin et al. 2023 |
| 11 |  |  | 43,400 ± 1700 | OxA-34920 | bone | Rybin et al. 2023 |
| 12 |  |  | 45,000 ± 2100 | OxA-34921 | bone | Rybin et al. 2023 |
| 13 |  |  | 45,400 ± 2200 | OxA-34922 | bone | Rybin et al. 2023 |
| 14 |  |  | 46,400 ± 2500 | OxA-34924 | bone | Rybin et al. 2023 |
| 15 | Kamenka A | 51.747755 N / 108.291978 E | 31,060 ± 530 | SOAN-3133 | charcoal | Vasil’ev et al. 2002 |
| 16 |  |  | 41,350 ± 450 | OxA-12117 | bone | Buvit et al. 2016 |
| 17 |  |  | 40,500 ± 3800 | AA-26743 | bone | Buvit et al. 2016 |
| 18 |  |  | 30,460 ± 430 | SOAN-3354 | bone | Buvit et al. 2016 |
| 19 |  |  | 39,290 ± 350 | OxA-12116 | bone | Zwyns and Lbova 2019 |
| 20 |  |  | 37,350 ± 310 | GrA-5435 | bone | Zwyns and Lbova 2019 |
| 21 | Kamenka B |  | 35,845 ± 695 | SOAN-2904 | bone | Buvit et al. 2014 |
| 22 | Kamenka C |  | 30,220 ± 270 | SOAN-3052 | bone | Buvit et al. 2014 |
| 23 | Tolbaga | 51.207779 N / 109.324670 E | 31,120 ± 380 | Beta-241406 | bone | Izuho et al. 2019 |
| 24 |  |  | 35,770 ± 340 | Beta-344453 | bone | Izuho et al. 2019 |
| 25 |  |  | 30,350 ± 200 | Beta-344455 | bone | Izuho et al. 2019 |
| 26 |  |  | 33,540 ± 500 | UCIAMS-143219 | bone | Izuho et al. 2019 |
| 27 |  |  | 33,470 ± 490 | UCIAMS-143221 | bone | Izuho et al. 2019 |
| 28 |  |  | 38,400 ± 1400 | UCIAMS-143234 | bone | Izuho et al. 2019 |
| 29 |  |  | 36,940 ± 750 | UCIAMS-143235 | bone | Izuho et al. 2019 |
| 30 |  |  | 33,580 ± 520 | UCIAMS-143236 | bone | Izuho et al. 2019 |
| 31 |  |  | 30,700 ± 350 | UCIAMS-143237 | bone | Izuho et al. 2019 |
| 32 |  |  | 31,510 ± 390 | UCIAMS-143238 | bone | Izuho et al. 2019 |
| 33 |  |  | 31,400 ± 380 | UCIAMS-143240 | bone | Izuho et al. 2019 |
| 34 |  |  | 33,530 ± 500 | UCIAMS-143241 | bone | Izuho et al. 2019 |
| 35 |  |  | 31,920 ± 410 | UCIAMS-143242 | bone | Izuho et al. 2019 |
| 36 |  |  | 38,210 ± 890 | UCIAMS-143243 | bone | Izuho et al. 2019 |
| 37 | Tolbor-16 (AH 4) | 49.226983 N / 102.923106E | 33,320 ± 180 | MAMS-14932 | bone | Zwyns et al. 2019 |
| 38 |  |  | 33,520 ± 170 | MAMS-20979 | bone | Zwyns et al. 2019 |
| 39 | Tolbor-16 (AH 6) |  | 41,030 ± 350 | MAMS-20981 | bone | Zwyns et al. 2019 |
| 40 |  |  | 39,570 ± 290 | MAMS-20982 | bone | Zwyns et al. 2019 |
| 41 |  |  | 40,480 ± 320 | MAMS-20985 | bone | Zwyns et al. 2019 |
| 42 |  |  | 40,820 ± 240 | MAMS-24088 | bone | Zwyns et al. 2019 |
| 43 |  |  | 40,910 ± 340 | MAMS-20983 | bone | Zwyns et al. 2019 |
| 44 |  |  | 41,720 ± 390 | MAMS-20984 | bone | Zwyns et al. 2019 |
| 45 | Tolbor-21 (AH 5) | 49.263068 N / 102.957732 E | 42,830 ± 390 | MAMS-31819 | bone | Rybin et al. 2020 |
| 46 | Tolbor-21 (AH 4) |  | 38,150 ± 240 | MAMS-31816 | bone | Rybin et al. 2020 |
| 47 |  |  | 37,950 ± 240 | MAMS-31817 | bone | Rybin et al. 2020 |
| 48 |  |  | 37,250 ± 220 | MAMS-31818 | bone | Rybin et al. 2020 |
| 49 |  |  | 38,100 ± 390 | MAMS-28272 | bone | Rybin et al. 2020 |
| 50 |  |  | 37,770 ± 460 | MAMS-41784 | bone | Rybin et al. 2020 |
| 51 | Shuidonggou (locality 1) | 38.298633 N / 106.501718 E | 36,200 ± 140 | UGAMS-9682 | charcoal | Li et al., 2013; Morgan et al., 2014 |
| 52 | Shuidonggou (locality 2) |  | 36,329 ± 215 | BA-07943 | wood | Li et al., 2013; Morgan et al., 2014 |
| 53 | Shiyu | 39.405459 N / 112.346784 E | 40,700 ± 1300 | OxA-30979 | bone | Yang et al. 2024 |
| 54 |  |  | 41,500 ± 1400 | OxA-30978 | bone | Yang et al. 2024 |
| 55 |  |  | 42,100 ± 1600 | OxA-43259 | bone | Yang et al. 2024 |
| 56 |  |  | 42,300 ± 1600 | OxA-43260 | bone | Yang et al. 2024 |
| 57 |  |  | 43,300 ± 1800 | OxA-43261 | tooth | Yang et al. 2024 |
| 58 |  |  | 43,700 ± 1900 | OxA-43262 | bone | Yang et al. 2024 |
| 59 |  |  | 43,300 ± 1800 | OxA-43263 | bone | Yang et al. 2024 |
| 60 |  |  | 43,400 ± 1800 | OxA-43264 | bone | Yang et al. 2024 |
| 61 |  |  | 40,600 ± 1300 | OxA-43265 | bone | Yang et al. 2024 |
| 62 |  |  | 41,500 ± 1400 | OxA-43266 | bone | Yang et al. 2024 |
| 63 |  |  | 41,300 ± 1300 | OxA-43267 | bone | Yang et al. 2024 |

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